

## FLUID EJECTION DEVICE WITH STAGGERED INK DROP GENERATORS

ABSTRACT OF THE DISCLOSURE 09640286

5 The present invention includes as one embodiment a fluid ejection  
device coupled to an ink supply and having multiple printing modes, including a  
sufficient number of ink drop generators fluidically coupled to the ink supply  
device and formed in the fluid ejection device and arranged along at least  
three axes that are substantially parallel and spaced apart from each other to  
provide printing resolution of at least 600 dots per inch with each printing  
10 mode. The plurality of ink drop generators is arranged along four axes that  
are substantially parallel and spaced transverse to each other and wherein  
the plurality of ink drop generators arranged along the four axes are  
staggered with respect to each of the axes to decrease an effective pitch of  
the fluid ejection device to approximately one-fourth that of a plurality of ink  
15 drop generators arranged along a single axis.